IN THE CLAIMS

Please amend the claims as follows:

1. (Original) A silicon dioxide film removing method of removing a silicon dioxide film formed on a surface of a workpiece in a processing vessel that can be evacuated;

characterized in using a mixed gas containing HF gas and NH₃ gas for remove the silicon dioxide film.

- 2. (Original) The silicon dioxide film removing method according to claim 1, wherein a processing temperature at which the workpiece is processed is in the range of 100°C to 600°C.
- 3. (Original) The silicon dioxide film removing method according to claim 1 or 2, wherein a processing pressure at which the workpiece is processed is in the range of 26 to 53,200 Pa (0.2 to 400 torr).
- 4. (Original) The silicon dioxide film removing method according to claim 1, wherein the silicon dioxide film is a chemical oxide film formed by a chemical process, and a processing temperature for achieving etch selectivity for the chemical oxide film to silicon is in the range of 100°C to 400°C.

The silicon dioxide film, namely, the chemical oxide film, can be etched and removed by etching at a high degree of etch selectivity.

- 5. (Original) The silicon dioxide film removing method according to claim 4, wherein the processing pressure is in the range of 26 to 53,200 Pa (0.2 to 400 torr).
- 6. (Original) The silicon dioxide film removing method according to claim 4 or 5, wherein the flow rate ratio of HF gas to NH₃ gas is in the range of 10:1 to 1:50.

- 7. (Original) The silicon dioxide film removing method according to claim 1, wherein the silicon dioxide film is a chemical oxide film formed by a chemical process, and a processing temperature for achieving etch selectivity for the chemical oxide film to a silicon nitride film is in the range of 200°C to 600°C.
- 8. (Original) The silicon dioxide film removing method according to claim 1, wherein the silicon dioxide film is a chemical oxide film formed by a chemical process, and a processing temperature for achieving etch selectivity for the chemical oxide film to a silicon dioxide film formed by decomposing TEOS is in the range of 300°C to 400°C.
- 9. (Original) The silicon dioxide film removing method according to claim 1, wherein the silicon dioxide film is a chemical oxide film formed by a chemical process, and a processing temperature for achieving etch selectivity for the chemical oxide film to a thermal oxide film is in the range of 100°C to 600°C.
- 10. (Original) The silicon dioxide film removing method according to any one of claims 7 to 9, wherein the flow rate ratio of HF gas to NH₃ gas is in the range of 1:10 to 1:50.
- 11. (Original) The silicon dioxide film removing method according to any one of claims 7 to 9, wherein the processing pressure is 1011 Pa (7.6 torr) or below.
- 12. (Currently Amended) The silicon dioxide film removing method according to any one of claims 1 to 3, 5, 6 and 10 1, 2 and 5, wherein the silicon dioxide film is a natural oxide film.
 - 13. (Original) A processing system comprising: a workpiece holding means for holding workpieces;

a heating means for heating the workpieces;

an evacuating system for evacuating the processing vessel;

an HF gas supply system for supplying HF gas into the processing vessel; and an NH₃ gas supply system for supplying NH₃ gas into the processing vessel.

- 14. (Original) The processing system according to claim 13 further comprising an oxidizing gas supply system for supplying steam or gases for generating steam into the processing vessel.
- 15. (Original) The processing system according to claim 13 further comprising a silicon film forming gas supply system for supplying a silicon film forming gas into the processing vessel.